

AMENDMENTS TO THE CLAIMS

1. (Previously Presented) A golf club head comprising
a face for hitting a golf ball,
a crown,
a sole,
a sidewall extending from the periphery of the sole
towards the crown excluding the face, and
a neck to be fixed to a shaft,
and formed by welding together
a face member for forming the face,
a crown member for forming the crown and
a walled sole member for forming at least the sole and the
wall,
the walled sole member made by monoblock casting, and
the face member and the crown member each made by plastic
deformation processing,
the walled sole member has a variable thickness, wherein the
ratio (t_2/t_1) of the minimum thickness t_1 and the maximum thickness
 t_2 thereof is in the range of from 1.2 to 3.0,
the walled sole member is made of a metal material by
monoblock casting, and the face member is made of a different metal
material than the walled sole member by plastic deformation
processing,

the face member is thicker than the crown member such that the thickness of the face member is not less than 2.0 mm, but the thickness of the crown member is not more than 1.2 mm.

2. (Previously Presented) A golf club head comprising
a face for hitting a golf ball,
a crown,
a sole,
a sidewall extending from the periphery of the sole towards the crown excluding the face, and
a neck to be fixed to a shaft, and formed by welding together
a face member for forming the face,
a crown member for forming the crown and
a walled sole member for forming the sole, sidewall and neck,

the face member and the crown member each made by plastic deformation processing,

the walled sole member has a variable thickness, wherein the ratio (t_2/t_1) of the minimum thickness t_1 and the maximum thickness t_2 thereof is in the range of from 1.2 to 3.0,

the walled sole member is made of a metal material by monoblock casting, and the face member is made of a different metal material than the walled sole member by plastic deformation processing,

the face member is thicker than the crown member such that the thickness of the face member is not less than 2.0 mm, but the thickness of the crown member is not more than 1.2 mm,

the crown member is made of the same material as the face member.

3. (Previously Presented) The golf club head according to claim 1, wherein

the neck is formed by a neck member, and

the neck member, face member, crown member and walled sole member are welded together.

4. (Previously Presented) The golf club head according to claim 1 or 2, wherein

the volume of the head is not less than 250 cm³.

5. (Previously Presented) The golf club head according to claim 1 or 2, wherein

the volume of the head is not less than 250 cm³, and the face member, crown member and walled sole member each have a specific gravity of not more than 5.0.

6. (Previously Presented) The golf club head according to claim 3, wherein

the volume of the head is not less than 250 cm³, and

the face member, crown member, walled sole member and neck member each have a specific gravity of not more than 5.0.

7. (Previously Presented) The golf club head according to claim 1, 2, or 3, wherein

the monoblock casting is a lost-wax process.

8. (Previously Presented) The golf club head according to claim 1, 2, or 3, wherein

the plastic deformation processing is a press forming of a rolled sheet metal.

9. (Previously Presented) The golf club head according to claim 1 or 2, wherein

the volume of the head is not less than 300 cm³.

10. (Previously Presented) The golf club head according to claim 1 or 2, wherein

a sweet spot height is not more than 28.0 mm.

11. (Previously Presented) The golf club head according to claim 1 or 2, wherein

a depth of the center of gravity is not less than 36.0 mm.

12. (Previously Presented) A golf club head comprising

a face for hitting a golf ball,

a crown,

a sole,

a sidewall extending from the periphery of the sole towards the crown excluding the face, and

a neck to be fixed to a shaft, wherein the golf club head is formed by welding together

a face member for forming the face,

a crown member for forming the crown and

a walled sole member for forming at least the sole and the wall,

the walled sole member made by monoblock casting, and

the face member and the crown member each made by plastic deformation processing,

a volume of the head being not less than 250 cm³,

a sweet spot height of the head being not more than 28.0 mm, and

a depth of the center of gravity of the head being not less than 36.0 mm,

the walled sole member has a variable thickness, wherein the ratio (t_2/t_1) of the minimum thickness t_1 and the maximum thickness t_2 thereof is in the range of from 1.2 to 3.0,

the walled sole member is made of a metal material by monoblock casting, and the face member is made of a different metal material than the walled sole member by plastic deformation processing,

the face member is thicker than the crown member such that the thickness of the face member is not less than 2.0 mm, but the thickness of the crown member is not more than 1.2 mm.

13. (Previously Presented) A golf club head according to claims 1, 2 or 12, wherein

a lateral moment of inertia of the head is not less than 3500 cm⁴, and

a vertical moment of inertia of the head is not less than 2000 cm⁴.

14. (New) A golf club head according to claim 1, 2, or 12, wherein

the walled sole member is made of a titanium alloy, and

the face member and crown member are made of a titanium alloy whose tensile strength is higher than that of the titanium alloy of the walled sole member.

15. (New) A golf club head according to claim 1, 2 or 12, wherein

the walled sole member is made of a titanium alloy Ti-6Al-4V, and

the face member and crown member are made of a titanium alloy Ti-15V-3Al-3Sn-3Cr whose tensile strength is higher than that of the titanium alloy of the walled sole member.

16. (New) The golf club head according to claim 1, 2 or 12,
wherein

the thickness ratio (t_2/t_1) is in a range of from 1.5 to 2.5.